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CLAIMS

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1. A system for in vivo diagnosis, said system comprising
a composition, said composition comprising at least a marking agent and a
pharmaceutically acceptable carrier;
an in vivo device, said device comprising at least an illumination source
and an image sensor; and
an external receiving unit to receive at least image information
2. A system for in vivo diagnosis, said system comprising
a composition, said composition comprising at least a marking agent and a
pharmaceutically acceptable carrier; and
an autonomous in vivo device, said device comprising at least an
illumination source and a light detector.
3. The system according to claim 2 wherein the light detector is an image sensor.
4. The system according to claim 1 or 3 wherein the image sensor is a CMOS.
5. The system according to claims 1 or 2 comprising a transmitter.
6. The system according to claims 1 or 2 comprising an internal power source.
7. The system according to claims 1 or 2 wherein the marking agent includes a
photosensitizer.
8. The system according to claims 1 or 2 wherein the marking agent includes a
vital stain.
9. The system according to claims 1 or 2 wherein the marking agent includes a
tumor marker.

- 5 10. The system according to claims 1, 2 or 9 wherein the composition includes a moiety selected from the group consisting of: a dye, a radioactive moiety and a fluorescent moiety.
11. The system according to claim 1 or 2 comprising a polychromatic light source and a monochromatic light source.
- 10 12. The system according to claim 1 or 2 wherein the illumination source is configured to be activated in a flashing mode.
13. The system according to claims 1 or 2 comprising an image sensor and a light detector.
14. The system according to claim 1 comprising a filter configured to cover at least
15 some pixels of the image sensor.
15. A method for in vivo diagnostics, the method comprising:
 administering a marking agent to a patient;
 illuminating white light within a body lumen; and
 obtaining images of endo-luminal tissue.
- 20 16. The method according to claim 15 wherein the marking agent includes a photosensitizer.
17. The method according to claim 15 wherein the marking agent includes a vital stain.
18. The method according to claim 15 wherein the marking agent includes a tumor
25 marker.

- 5 19. The method according to claim 15 comprising administering a composition to a patient, said composition including a moiety selected from the group consisting of: a dye, a radioactive moiety and a fluorescent moiety.
20. The method according to claim 15 comprising illuminating monochromatic light within a body lumen.
- 10 21. The method according to claim 15 comprising detecting fluorescent emission.
22. The method according to claim 15 comprising illuminating in a flash mode.
23. The method according to claim 15 comprising transmitting image information to an external receiving unit.